

Title (en)

CAPACITY OPTIMIZATION SUB-SYSTEM FOR DISTRIBUTED ANTENNA SYSTEM

Title (de)

KAPAZITÄTSOPTIMIERUNGSSUBSYSTEM FÜR EIN VERTEILTES ANTENNENSYSTEM

Title (fr)

SOUS-SYSTÈME D'OPTIMISATION DE CAPACITÉ POUR SYSTÈME D'ANTENNE DISTRIBUÉ

Publication

EP 2904831 B1 20171004 (EN)

Application

EP 12778954 A 20121005

Priority

EP 2012004179 W 20121005

Abstract (en)

[origin: WO2014053149A1] Certain aspects are directed to a capacity optimization sub-system for a distributed antenna system. The capacity optimization sub-system includes a switch matrix and a controller. The switch matrix includes variable attenuators and switches. The switch matrix can receive sectors from base stations. The switch matrix can provide the sectors to coverage zones. The controller can communicate with the switch matrix. The controller can determine that a number of wireless devices in one or more of the coverage zones is outside a specified range of threshold traffic levels. In response to determining that the number of wireless devices is outside the specified range of threshold traffic levels, the controller can configure one or more of the variable attenuators and corresponding switches to redistribute capacity among the coverage zones by, for example, increasing and/or decreasing capacity in one or more of the coverage zones.

IPC 8 full level

H04W 16/28 (2009.01)

CPC (source: EP US)

H04W 16/08 (2013.01 - EP US); **H04W 16/24** (2013.01 - US); **H04W 28/0289** (2013.01 - US); **H04W 28/0861** (2023.05 - EP US); **H04W 88/085** (2013.01 - EP US)

Citation (examination)

US 2006094470 A1 20060504 - WAKE DAVID [GB], et al

Cited by

US10412595B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2014053149 A1 20140410; EP 2904831 A1 20150812; EP 2904831 B1 20171004; US 10412595 B2 20190910; US 2015264582 A1 20150917; US 2018199209 A1 20180712; US 9913147 B2 20180306

DOCDB simple family (application)

EP 2012004179 W 20121005; EP 12778954 A 20121005; US 201214433341 A 20121005; US 201815912319 A 20180305